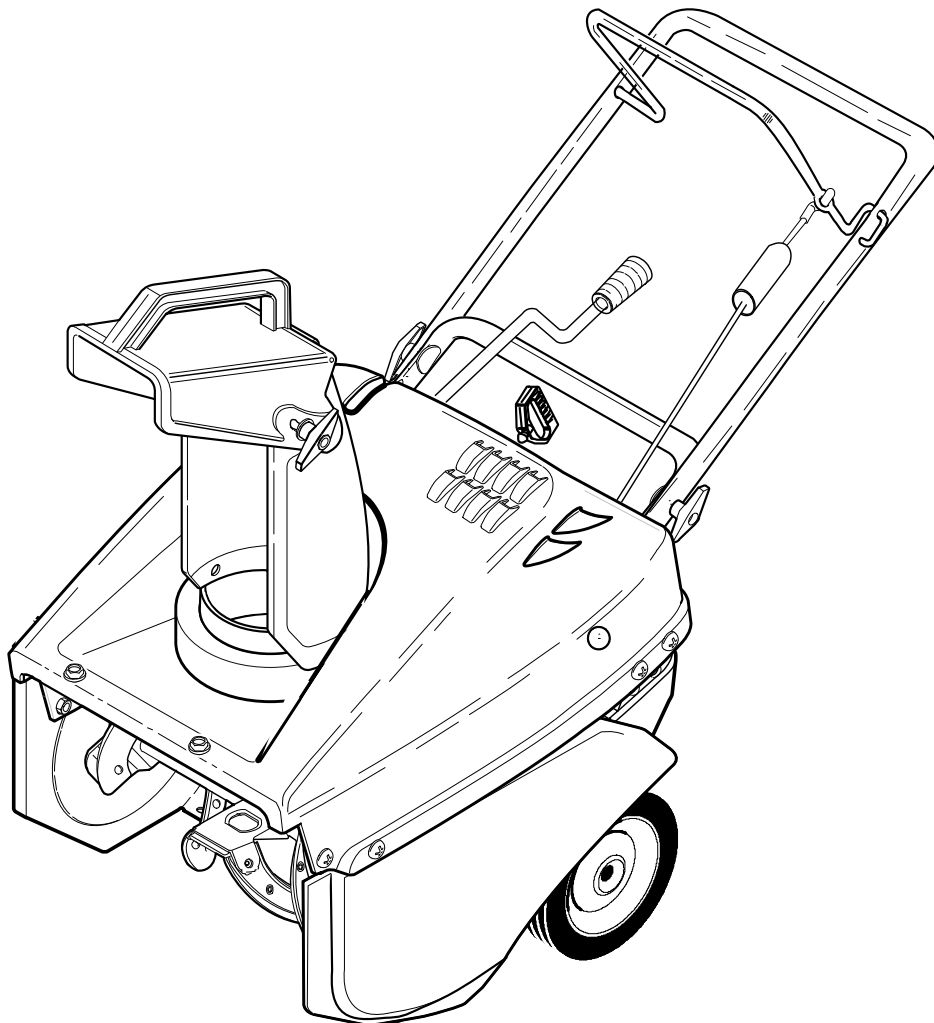


1695565

Parts Manual



Manual Part No. 1737496

Revision B

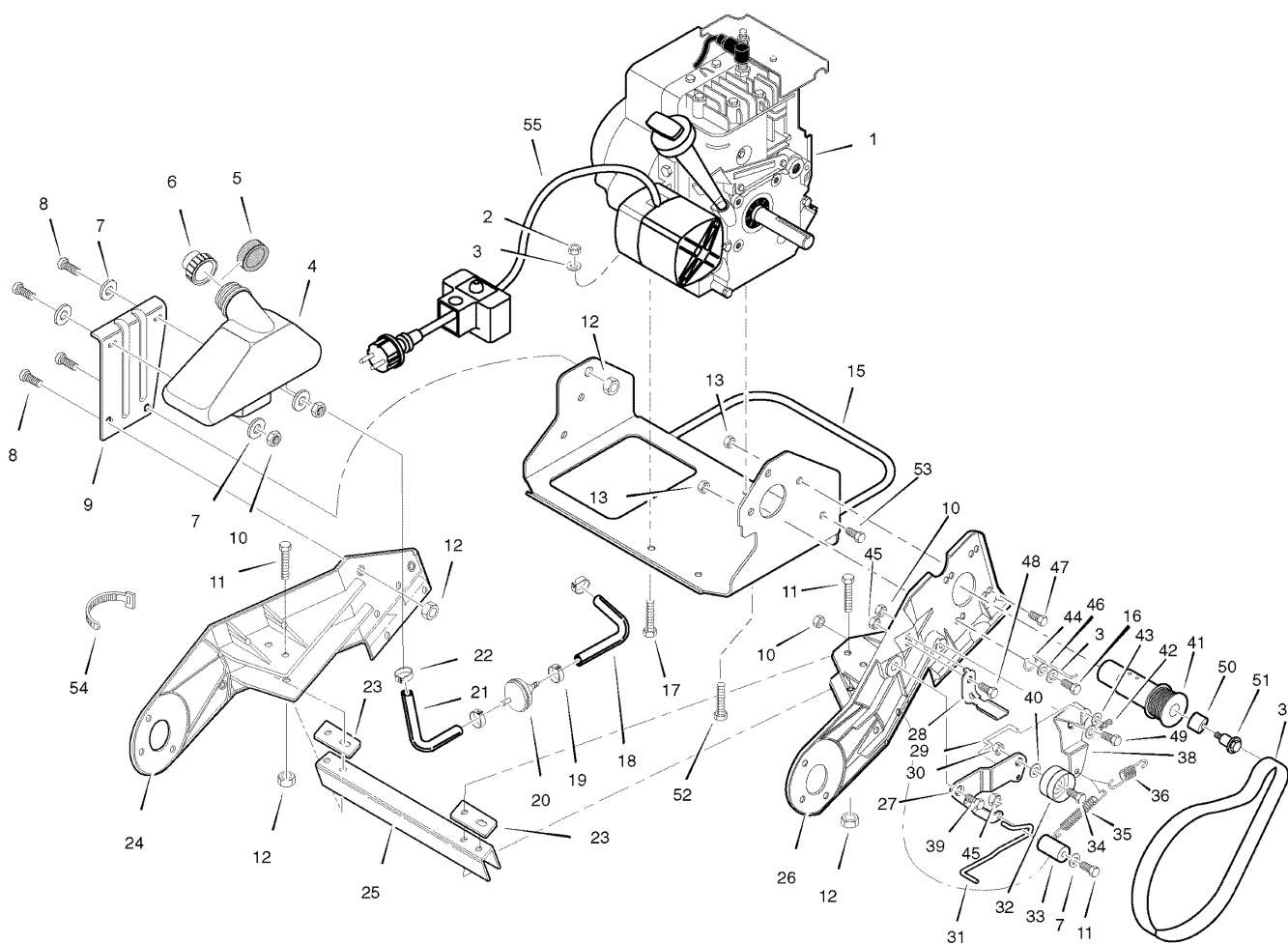
Rev. Date: 9/15/2009

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Engine & Frame Assembly

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.



The above parts group applies to the following Mfg. Nos.:

1695565 - Brute 525/21

Engine & Frame Assembly

REF NO	PART NO.	QTY.	DESCRIPTION
1	----		ENGINE (09A4130202E1)
2	71037MA		NUT, 5/16-18
3	71060MA		WASHER, SPLIT LOCK .31 X .58 X .08
4	333739MA		TANK, FUEL 1.5QT
5	762224MA		RING, FOAM FUEL TANK
6	1501726MA		CAP, FUEL
7	71067MA		WASHER, FLAT
8	302628MA		SCREW, 1/4-20 X 0.75
9	333749E701MA		BRACKET, FUEL TANK
10	271163MA		NUT, 8-32 HEX KEPS
11	180044MA		SCREW, 1/4-20 X 2.00
12	71034MA		NUT, 1/4-20 HEX
13	71391MA		NUT, 5/16-18 HEX CONTROL LOCK
15	1501744E701MA		CRADLE, WELDMENT
16	180077MA		BOLT, 5/16-18 X 0.75
17	001X81MA		BOLT, ENGINE MOUNT
18	791893		HOSE, FUEL 12 INCHES (CUT TO 6 INCH LENGTH)
19	323387MA		CLAMP, FUEL LINE
20	298090S		FILTER-FUEL
21	791893		HOSE, FUEL 12 INCHES (CUT TO 8 INCH LENGTH)
22	47345MA		CLAMP, HOSE SCREW
23	335351MA		PLATE, BOLTING SUPPORT
24	1501871E701MA		FRAME, RIGHT HAND
25	333987MA		CHANNEL, FRAME SUPPORT
26	1501872E701MA		FRAME, LEFT HAND
27	1741727YP		LF ARM, IDLER BRACKET
28	333970MA		BRAKE PAD
29	313436MA		ROD, CLUTCH LINKAGE
30	590MA		NUT, 3/8-16 JAM CONTROL LOCK
31	1501009MA		WIRE, BRAKE
32	48924MA		PULLEY, IDLER
33	1501010MA		ROLLER, PINCH
34	302637MA		SCREW, 3/8-16 X 1.50
35	313473MA		SPRING, EXTENSION .38 OD X .039 X 2.50
36	313471MA		SPRING, EXTENSION .75 OD X .069 X 2.00
37	333721MA		BELT
38	313444MA		ARM, IDLER PIVOT
39	333594MA		BOLT SHD .500 X .177 X .31
40	301188MA		WASHER, FLAT
41	1501908MA		PULLEY, ENGINE
42	121223MA		PIN, COTTER
43	414106MA		WASHER, FLAT #8

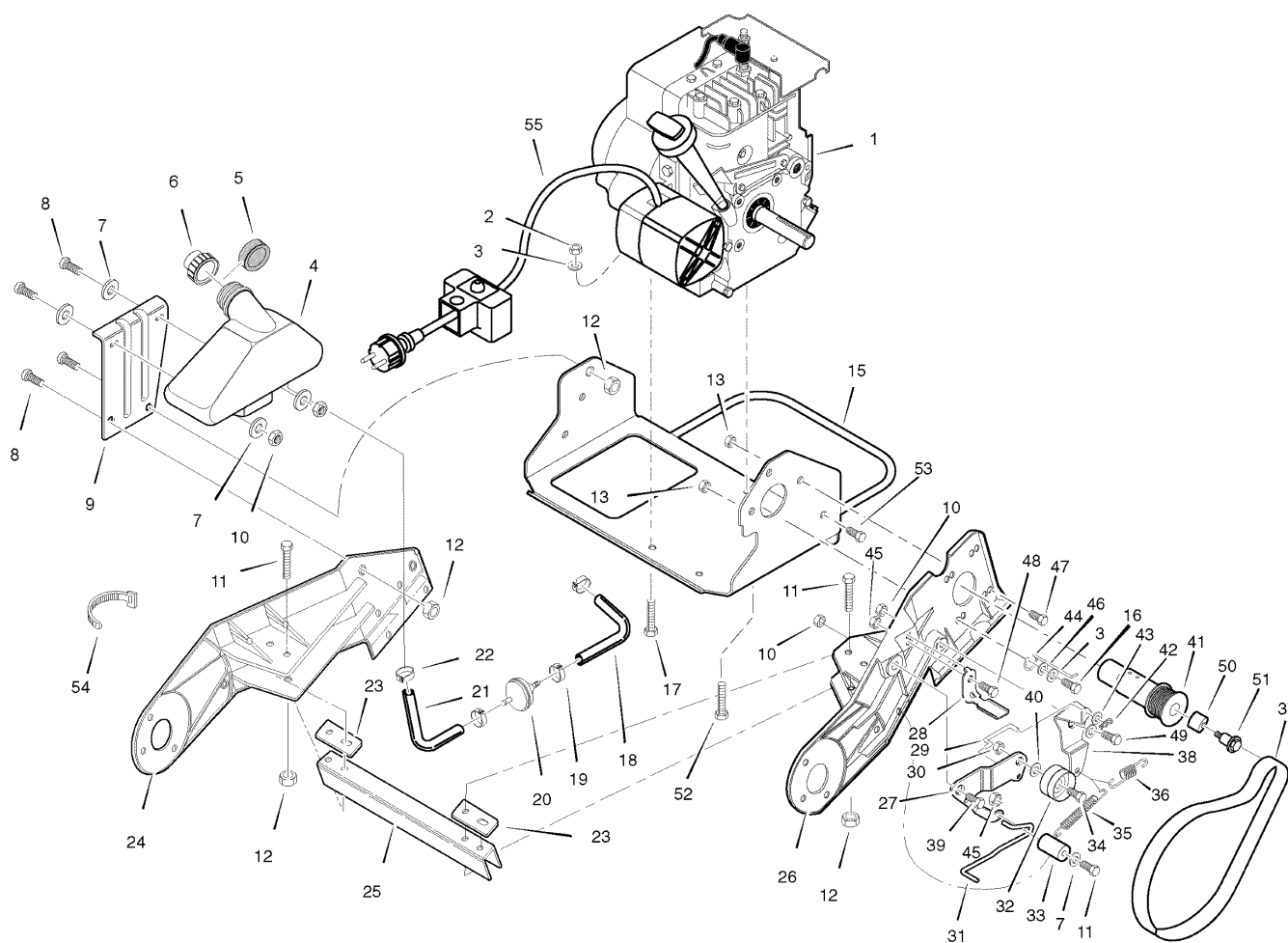
Footnotes

The above parts group applies to the following Mfg. Nos.:

1695565 - Brute 525/21

Engine & Frame Assembly

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.



The above parts group applies to the following Mfg. Nos.:

1695565 - Brute 525/21

Engine & Frame Assembly

REF NO	PART NO.	QTY.	DESCRIPTION
44	334079MA		GUIDE, BELT
45	73826MA		NUT, 1/4-20
46	71071MA		WASHER
47	48901MA		SCREW 5/16-18 X 0.63 WAHHC
48	579052MA		SCREW, 1/4-20 X 0.63
49	311633MA		SCREW, 8-32 X 3.00
50	1740037MA		SPACER, DRIVE PULLEY
51	1501907MA		BOLT, ENGINE PULLY
52	1X216MA		BOLT, 5/16-18 X 0.865
53	310169MA		SCREW .25-20 X .062 WAHHTA
54	57444MA		TIE, CABLE
55	6219MA		CORD, ELECTRIC 10FT. 220V

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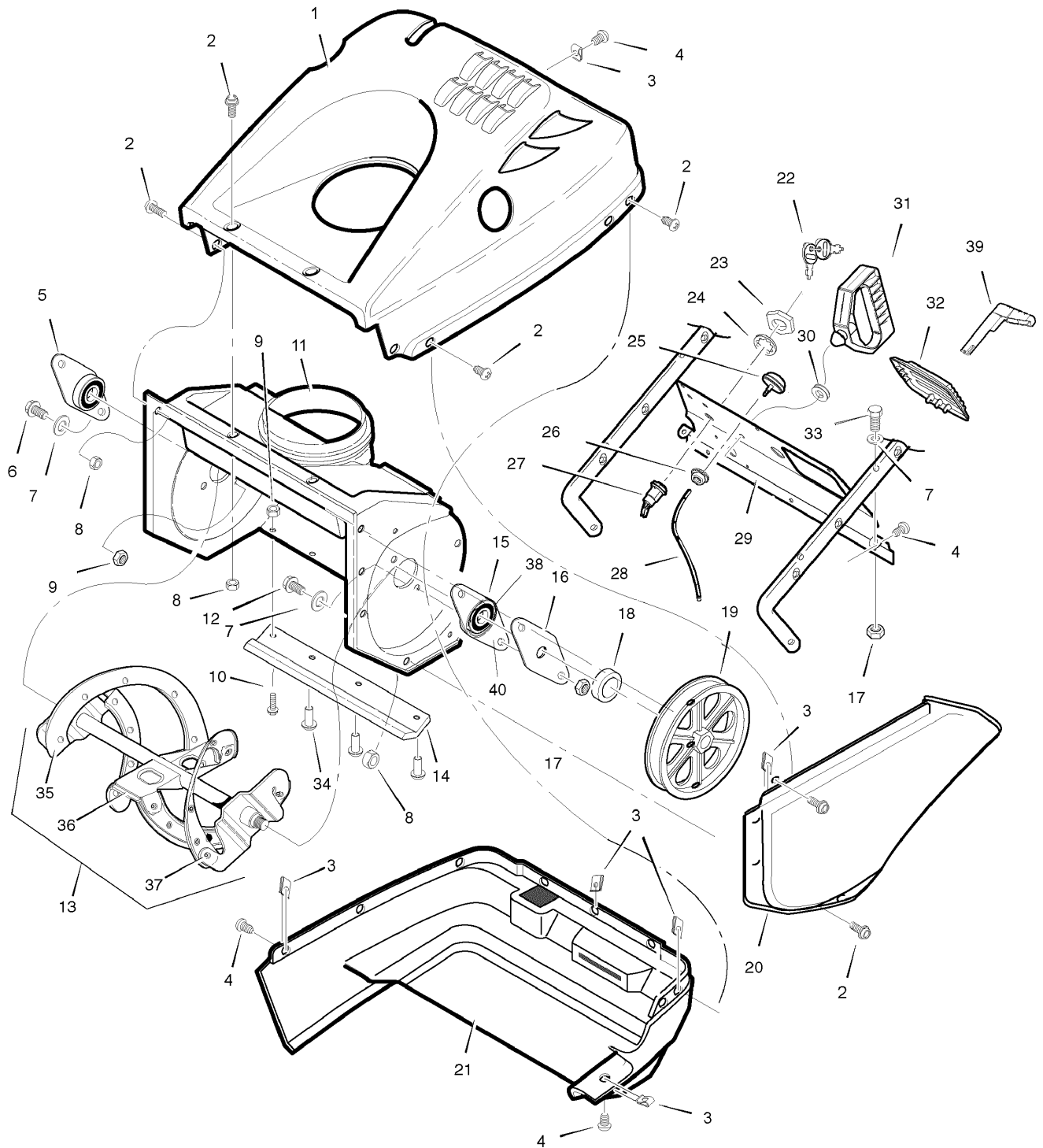
Footnotes

The above parts group applies to the following Mfg. Nos.:

1695565 - Brute 525/21

Auger & Control Assembly

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.



The above parts group applies to the following Mfg. Nos.:

1695565 - Brute 525/21

Auger & Control Assembly

REF NO	PART NO.	QTY.	DESCRIPTION
1	1740057MA		COVER, TOP
2	12342MA		SCREW, #10-24 X 0.50
3	578109MA		NUT, 1/4-10 SPEED J-TYPE
4	313685MA		SCREW, 1/4-14 X 0.75
5	577023MA		FLANGE BEARING
6	710263MA		SCREW, 1/4-20 X 1.00
7	71067MA		WASHER, FLAT
8	312300MA		NUT, #10-24 HEX CONTROL LOCK
9	15X143MA		NUT, 1/4-20 HEX CONTROL LOCK
10	302628MA		SCREW, 1/4-20 X 0.75
11	340091MA		AUGER HOUSING ASSEMBLY
12	579052MA		SCREW, 1/4-20 X 0.63
13	307049E701MA		AUGER ASSEMBLY, COMPLETE (Incl. Ref. Nos. 35, 36 & 37)
14	55323MA		BLADE, SCRAPER
15	583459MA		SF BEARING & PLATE ASSEMBLY
16	334287MA		LT PLATE, RETAINER BEARING
17	73826MA		NUT, 1/4-20 HEX CONTROL LOCK
18	578101MA		SPACER, SLEEVE
19	333446MA		PULLEY
20	340089MA		COVER, BELT
21	1501705MA		COVER, BOTTOM
22	691959		KEY SET
23	300193MA		NUT, 5/8-32
24	313683MA		WASHER
25	394281S		PRIMER-CARBURETOR
26	271172MA		NUT, 1/-20 HEX KEPS
27	56992MA		SWITCH, IGNITION 45 DEG.
28	335507MA		HOSE, PRIMER 9.5"
29	1501706MA		PANEL, CONTROL
30	57587MA		GROMMET & WASHER, ROPE
31	699334		GRIP, MITTEN
32	1501878MA		PANEL, ACCESS SPARK PLUG
33	313674MA		SCREW, 1/4-20 X 1.25
34	577707MA		RIVET, OFFSET
35	302565MA		BLADE, AUGER (Incl. with. Ref. No. 13)
36	335992MA		BLADE, CENTER (Incl. with. Ref. No. 13)
37	49838MA		RIVET, OFFSET (Incl. with. Ref. No. 13)
38	43846MA		BEARING, BALL
39	791534		KNOB-CHOKE SHAFT
40	580251MA		RETAINER, BEARING

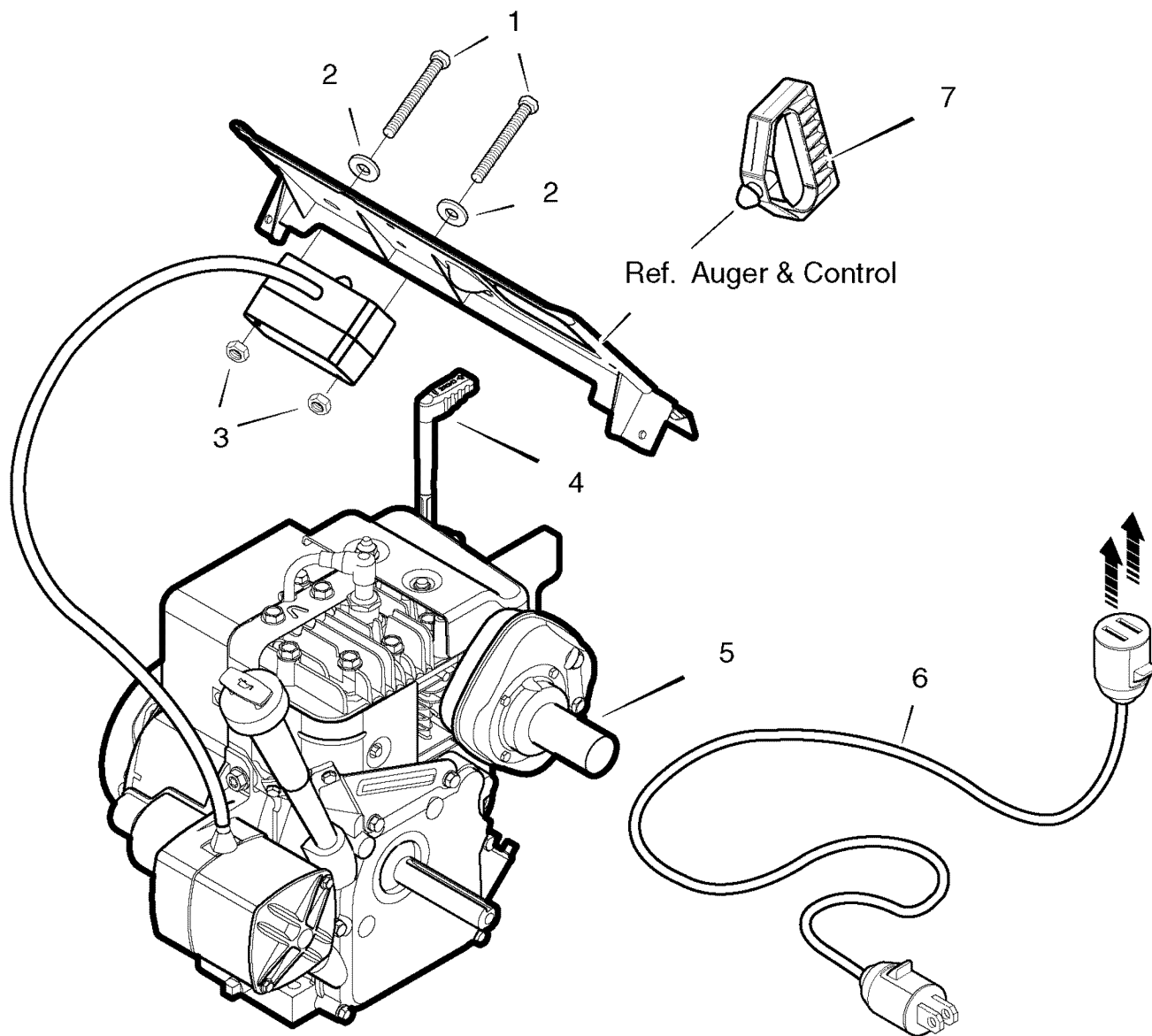
Footnotes

The above parts group applies to the following Mfg. Nos.:

1695565 - Brute 525/21

Electric Starter

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.



The above parts group applies to the following Mfg. Nos.:

1695565 - Brute 525/21

Electric Starter

REF NO	PART NO.	QTY.	DESCRIPTION
1	311633MA		SCREW, # 8 - 32 x 3
2	414106MA		WASHER
3	271163MA		NUT, Keps
4	791534		LEVER, Choke *
5-1	699565		Muffler *
5-2	691880		GASKET, Muffler *
5-3	699818		Bolt, Muffler *
5-4	71060MA		WASHER, Split Lock
5-5	71037MA		NUT, Hex, 5/16 - 18
5-6	001X81MA		BOLT, Hex, 5/16 - 18
6	6219MA		CORD, Extension
7	699334		GRIP, Mitten

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Footnotes

Note* For information on Replacement Parts contact the engine manufacturer.

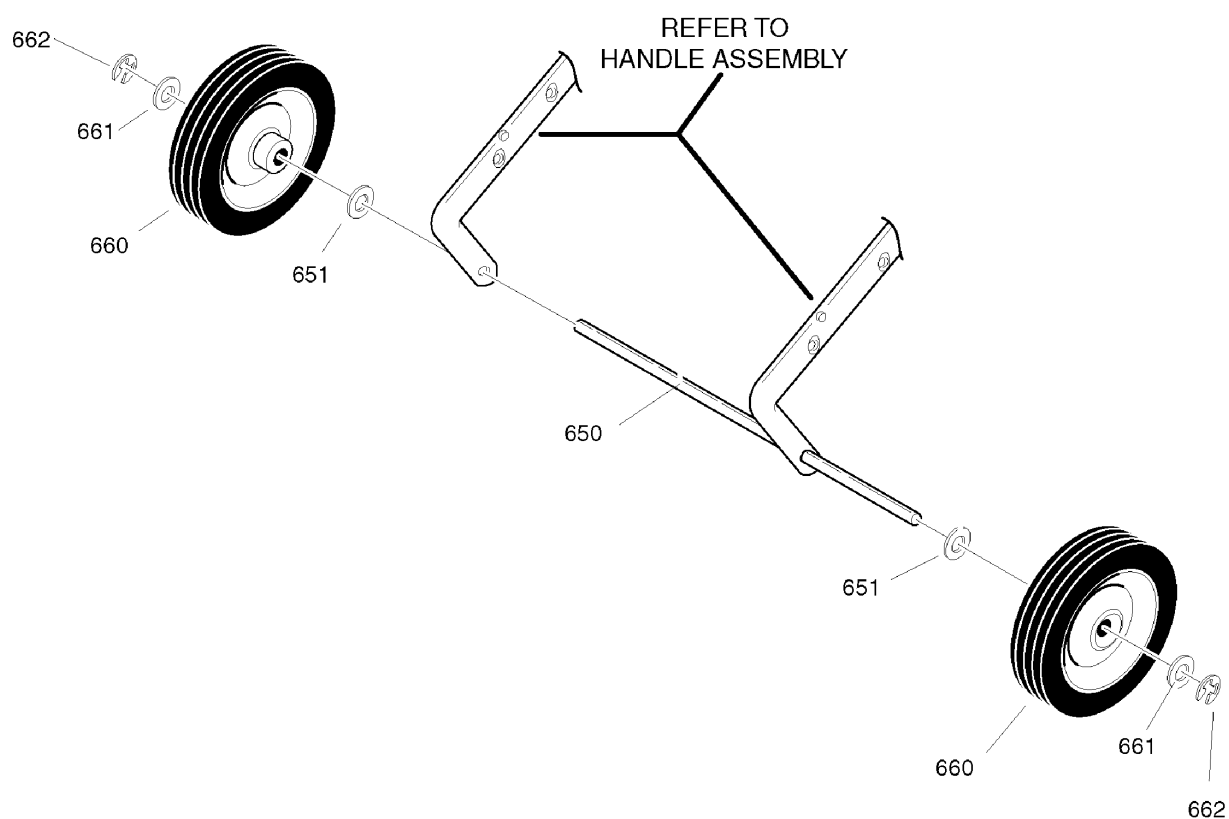
Note* For information on Replacement Parts contact the Engine manufacturer.

The above parts group applies to the following Mfg. Nos.:

1695565 - Brute 525/21

Wheels

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.



The above parts group applies to the following Mfg. Nos.:

1695565 - Brute 525/21

Wheels

REF NO	PART NO.	QTY.	DESCRIPTION
650	313678MA		AXLE, 20.53 WHL 20/21
651	583409MA		WASHER, FLAT .391 X 1.00 X .125
660	1741722YP		TIRE & RIM
661	583409MA		WASHER, FLAT .391 X 1.00 X .125
662	577598MA		RING, RETAINER

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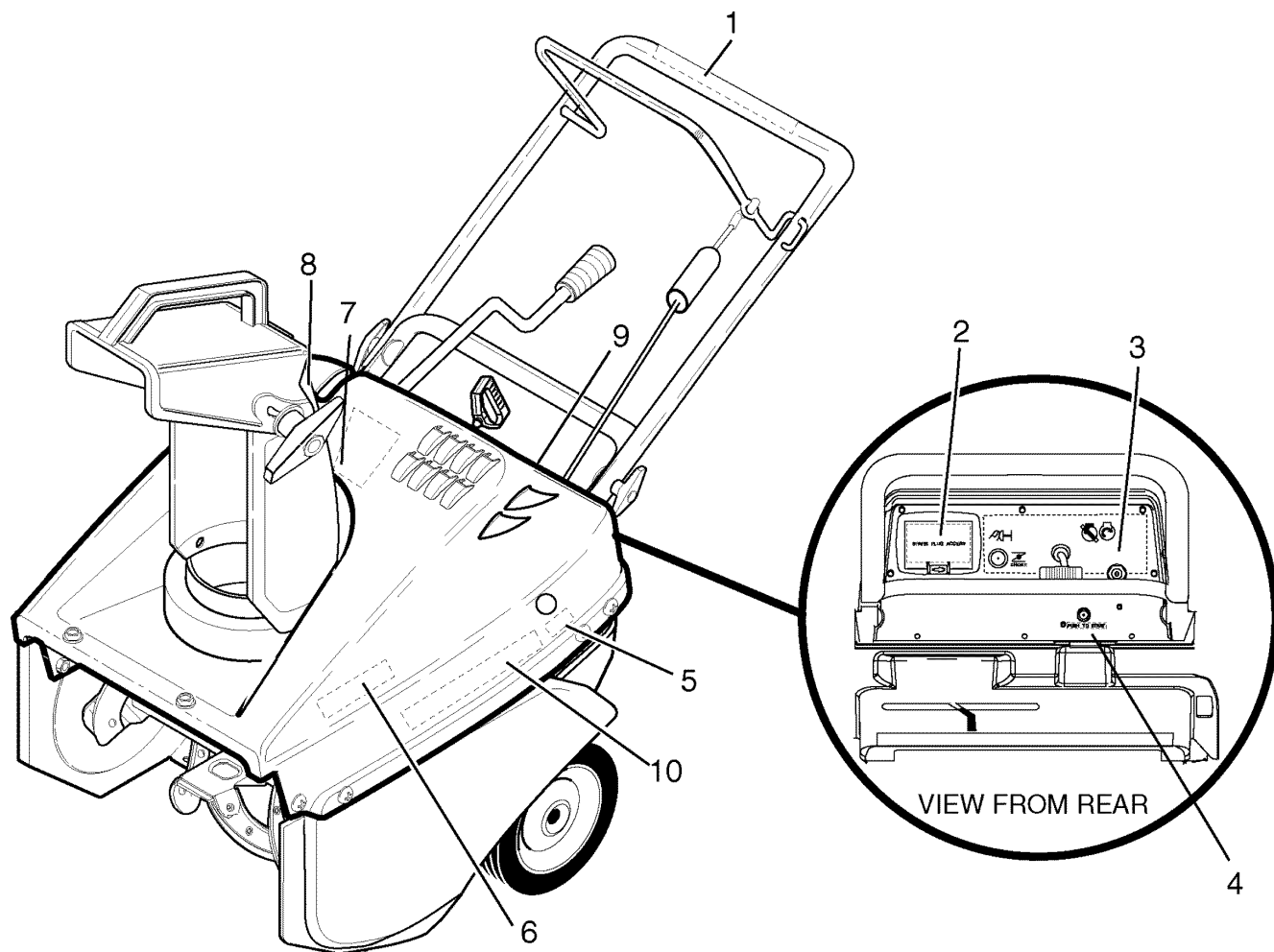
Footnotes

The above parts group applies to the following Mfg. Nos.:

1695565 - Brute 525/21

Decals

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.



The above parts group applies to the following Mfg. Nos.:

1695565 - Brute 525/21

Decals

REF NO	PART NO.	QTY.	DESCRIPTION
1	337524MA	1	Decal, Auger Control Bar
2	761799MA	1	Decal, Spark Plug Access
3	1741514MA	1	Dash 21" French/English
4	48X5668MA	1	Decal, Push To Start
5	302778MA	1	Danger, Muffler
6	48X5644MA	1	Decal, Auger French/English
7	1738311YP	1	Decal, Brute 21" Model Info
8	48X5643MA	1	Decal, Danger Auger Chute French/English
9	1736564YP	1	Decal, Access Cover Warning
10	1742322YP	2	Decal, LH & RH Brute

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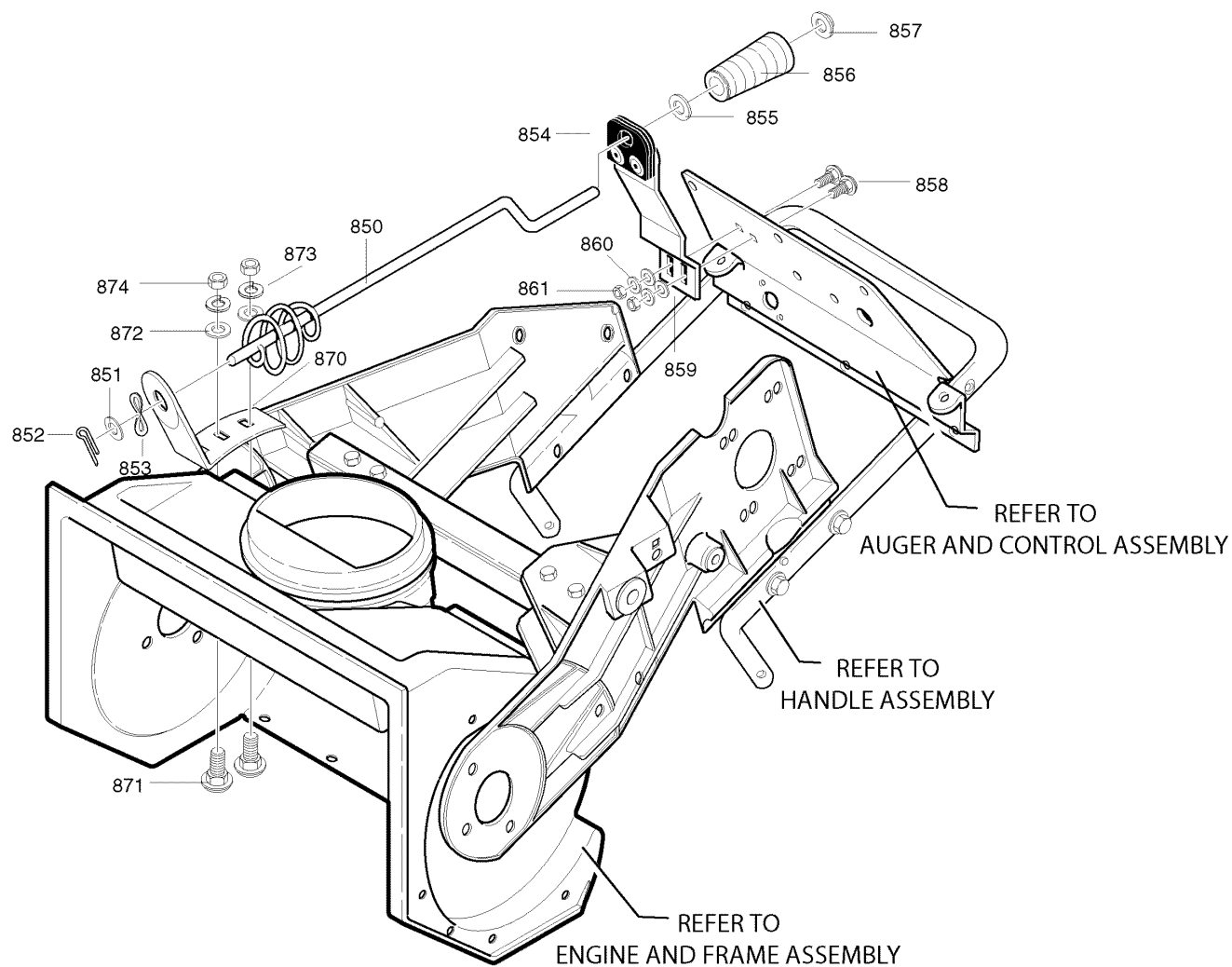
Footnotes

The above parts group applies to the following Mfg. Nos.:

1695565 - Brute 525/21

Chute Rod Assembly

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.



The above parts group applies to the following Mfg. Nos.:

1695565 - Brute 525/21

Chute Rod Assembly

REF NO	PART NO.	QTY.	DESCRIPTION
850	337941MA		ROD, CHUTE
851	71072MA		WASHER, FLAT .406 X .81 X .066
852	71082MA		PIN, COTTER
853	313431MA		WASHER CURVED
854	335264MA		ASSY, CHUTE CRANK
855	71072MA		WASHER, FLAT .406 X.81 X .066
856	57082MA		KNOB, SLEEVE
857	331532MA		NUT, PUSH
858	340715MA		BOLT, 1/4-20 X .63 CARRIAGE
859	71071MA		WASHER, FLAT .349 X .69 X .065
860	71060MA		WASHER, .31 X .58 X .08
861	71034MA		NUT, 1/4-20 HEX
870	333946E701MA		BRKT, CHUTE ROTATE
871	340720MA		BOLT, 5/16-18 X .75 CARRIAGE
872	71071MA		WASHER, FLAT .349 X .69 X .066
873	71060MA		WASHER, SPLIT LOCK .31 X .58 X .08
874	71037MA		NUT, 5/16-18 HEX

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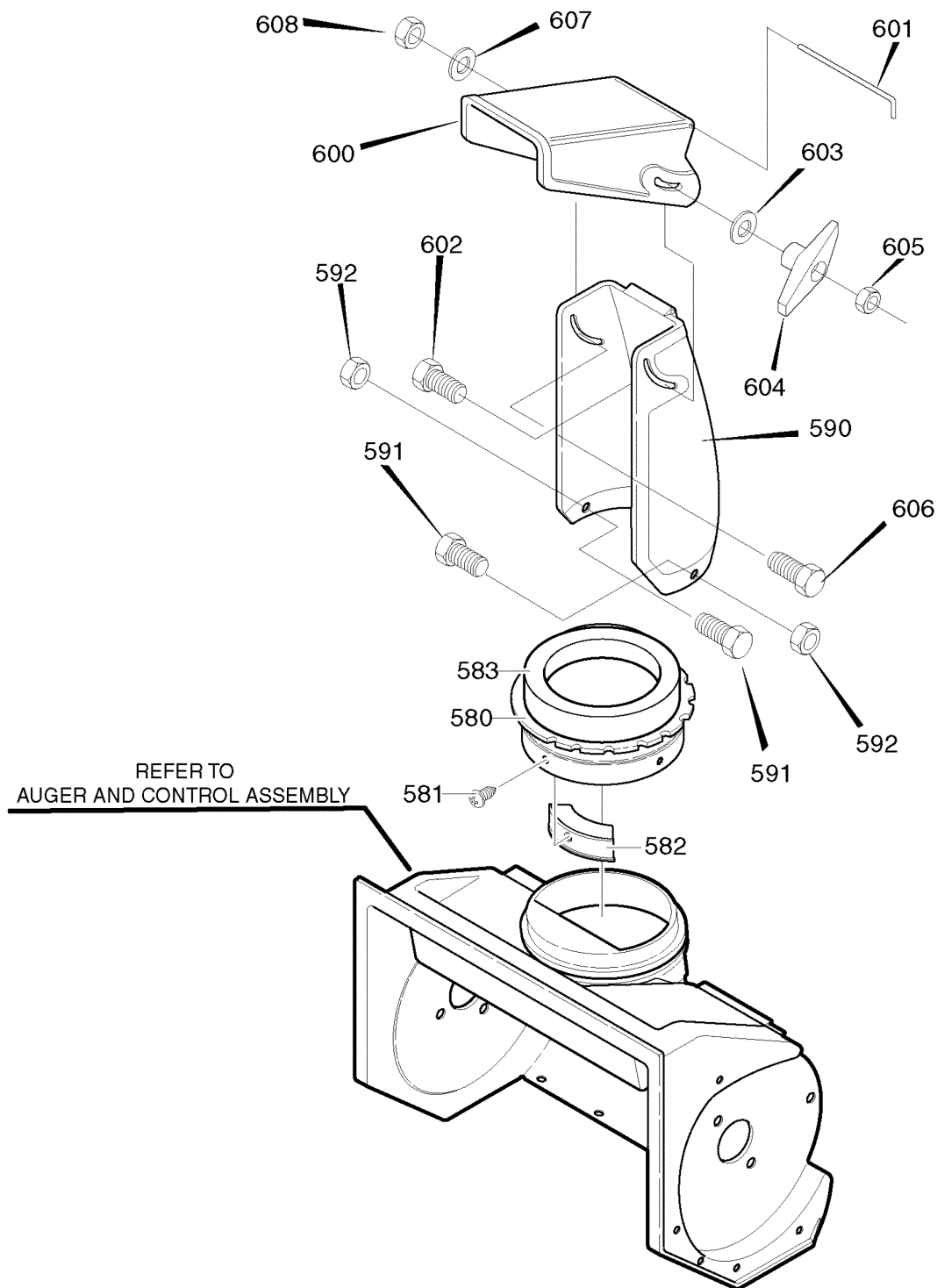
Footnotes

The above parts group applies to the following Mfg. Nos.:

1695565 - Brute 525/21

Discharge Chute

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.



The above parts group applies to the following Mfg. Nos.:

1695565 - Brute 525/21

Discharge Chute

REF NO	PART NO.	QTY.	DESCRIPTION
580	333859MA		RING, CHUTE
581	711752MA		SCREW, #10 X .50
582	577021MA		GUIDE, CHUTE
583	762173MA		DONUT FOAM
590	334234MA		CHUTE, DEFLECTOR LOWER
591	302628MA		SCREW 1/4-20 X .50
592	15X143MA		NUT, 1/4-20
600	325847MA		CHUTE DEFLECTOR, UPPER
601	308931MA		WIRE, CHUTE HINGE
602	302843MA		BOLT, 5/16-18 X 1.25 CARRIAGE
603	71071MA		WASHER, FLAT .349 X .69 X .066
604	1501260MA		KNOB, WING
605	71037MA		NUT, 5/16-18
606	578088MA		SCREW, 5/16-18 x 0.75
607	71071MA		WASHER, FLAT .349 X .69 X .066
608	71391MA		NUT, 5/16-18 HEX CONTROL LOCK

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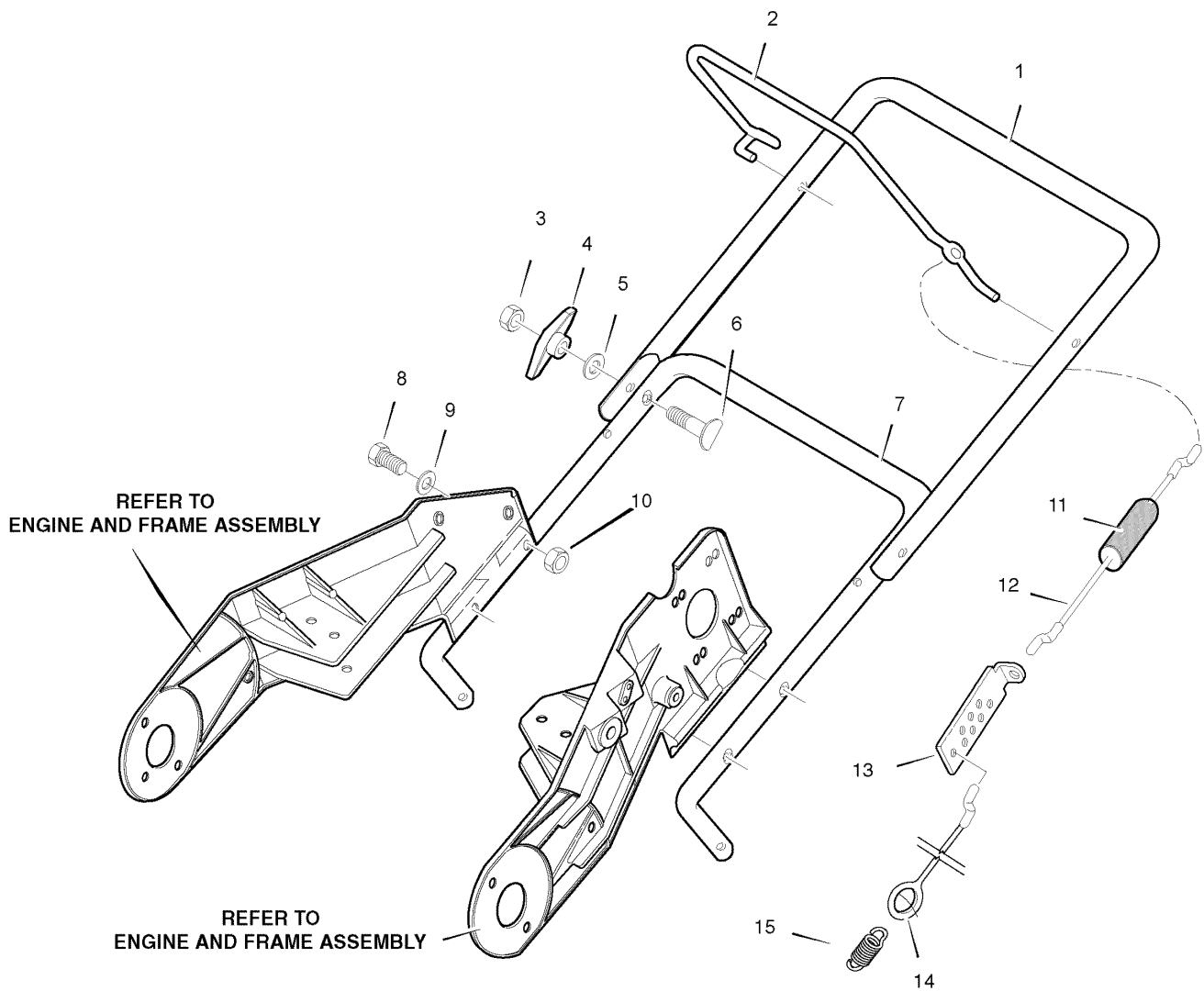
Footnotes

The above parts group applies to the following Mfg. Nos.:

1695565 - Brute 525/21

Handle Assembly

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.



The above parts group applies to the following Mfg. Nos.:

1695565 - Brute 525/21

Handle Assembly

REF NO	PART NO.	QTY.	DESCRIPTION
1	333919E701MA		HANDLE, UPPER
2	313308E701MA		BAIL, CONTROL
3	71037MA		NUT, 5/16-18 HEX
4	1501260MA		KNOB, WING
5	311936MA		WASHER, FORM
6	337584MA		BOLT, 5/16-18 X 2.00
7	333909E701MA		HANDLE, LOWER
8	313674MA		SCREW, 1/4-20 X 1.25
9	71067MA		WASHER, FLAT
10	73826MA		NUT, 1/4-20 HEX
11	308146MA		BOOT, CLUTCH SPRING
12	313449MA		CABLE, UPPER CONTROL
13	313441MA		BRACKET, CABLE ADJUST
14	313448MA		CABLE, LOWER CONTROL
15	313471MA		SPRING, EXTENSION

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Footnotes





The above parts group applies to the following Mfg. Nos.:

1695565 - Brute 525/21

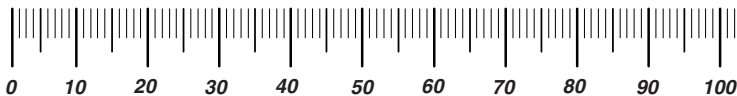
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Hardware Identification & Torque Specifications

Torque Specification Chart								
FOR STANDARD METRIC MACHINE HARDWARE (Tolerance ± 20%)								
Property Class	 Class 5.6		 Class 8.8		 Class 10.9		 Class 12.9	
Size Of Hardware	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.
M3	5.88	.56	13.44	1.28	19.2	1.80	22.92	2.15
M4	13.44	1.28	30.72	2.90	43.44	4.10	52.56	4.95
M5	26.4	2.50	60.96	5.75	5.97	8.10	7.15	9.7
M6	44.64	4.3	7.3	9.9	10.3	14	12.1	16.5
M7	5.2	7.1	12.1	16.5	16.9	23	19.9	27
M8	7.7	10.5	17.7	24	25	34	29	40
M10	15	21	35	48	50	67	59	81
M12	26	36	61	83	86.2	117	103	140
M14	42	58	101	132	136	185	162	220
M16	64	88	147	200	210	285	250	340
M18	89	121	202	275	287	390	346	470
M20	126	171	290	390	405	550	486	660
M22	169	230	390	530	559	745	656	890
M24	217	295	497	375	708	960	840	1140
M27	320	435	733	995	1032	1400	1239	1680
M30	435	590	995	1350	1401	1900	1681	2280
M33	590	800	1349	1830	1902	2580	2278	3090
M36	759	1030	1740	2360	2441	3310	2935	3980
M39	988	1340	2249	3050	3163	4290	3798	5150

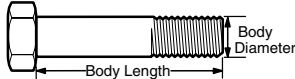
The guides and ruler furnished below are designed to help you select the appropriate hardware.



Nut, M8

Thread
Diameter (mm)
Inside
Diameter (in) Threads
per inch

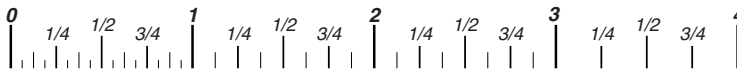
Nut, 1/2-16



Screw, M8- 1.25 x 25

Thread
Diameter (mm) Distance between
threads (mm) Body
Length (mm)
Body
Diameter Threads
per inch Body
Length (in)




Screw, 1/2- 16 x 2



Standard Hardware Sizing

When a washer or nut is identified as **1/2"** (M8), this is the *Nominal size*, meaning the *inside diameter* is 1/2 inch (8mm metric thread diameter); if a second number is present it represents the *threads per inch* (distance between threads).

When bolt or capscrew is identified as **1/2 - 16 x 2"** (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (1.25 thread diameter). The final number is the body length of the bolt or screw, 2 inches (50mm).

Torque Specification Chart						
FOR STANDARD MACHINE HARDWARE (Tolerance ± 20%)						
Hardware Grade	 SAE Grade 2		 SAE Grade 5		 SAE Grade 8	
Size Of Hardware	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.
8-32	19	2.1	30	3.4	41	4.6
8-36	20	2.3	31	3.5	43	4.9
10-24	27	3.1	43	4.9	60	6.8
10-32	31	3.5	49	5.5	68	7.7
1/4-20	66	7.6	8	10.9	12	16.3
1/4-28	76	8.6	10	13.6	14	19.0
5/16-18	11	15.0	17	23.1	25	34.0
5/16-24	12	16.3	19	25.8	29	34.0
3/8-16	20	27.2	30	40.8	45	61.2
3/8-24	23	31.3	35	47.6	50	68.0
7/16-14	30	40.8	50	68.0	70	95.2
7/16-20	35	47.6	55	74.8	80	108.8
1/2-13	50	68.0	75	102.0	110	149.6
1/2-20	55	74.8	90	122.4	120	163.2
9/16-12	65	88.4	110	149.6	150	204.0
9/16-18	75	102.0	120	163.2	170	231.2
5/8-11	90	122.4	150	204.0	220	299.2
5/8-18	100	136	180	244.8	240	326.4
3/4-10	160	217.6	260	353.6	386	525.0
3/4-16	180	244.8	300	408.0	420	571.2
7/8-9	140	190.4	400	544.0	600	816.0
7/8-14	155	210.8	440	598.4	660	897.6
1-8	220	299.2	580	788.8	900	1,244.0
1-12	240	326.4	640	870.4	1,000	1,360.0

NOTES

- These torque values are to be used for all hardware excluding: locknuts, self-tapping screws, thread forming screws, sheet metal screws and socket head setscrews.
- Recommended seating torque values for locknuts:
 - for prevailing torque locknuts - use 65% of grade 5 torques.
 - for flange whizlock nuts and screws - use 135% of grade 5 torques.
- Unless otherwise noted on assembly drawings, all torque values must meet this specification.

Common Hardware Types

Hex Head Capscrew



Washer

Carriage Bolt








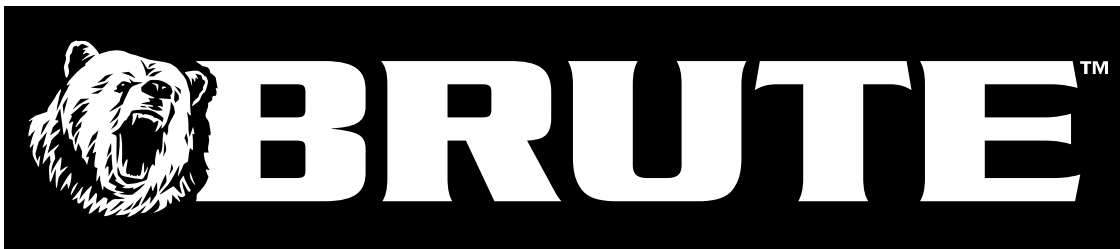
Lockwasher



Hex Nut

Wrench & Fastener Size Guide

 1/4" Bolt or Nut Wrench—7/16"	 5/16" Bolt or Nut Wrench—1/2"	 3/8" Bolt or Nut Wrench—9/16"	 7/16" Bolt or Nut Wrench (Bolt)—5/8" Wrench (Nut)—11/16"	 1/2" Bolt or Nut Wrench—3/4"
M6 Bolt or Nut Wrench—10mm	M8 Bolt or Nut Wrench—13mm	M10 Bolt or Nut Wrench—17mm	M12 Bolt or Nut Wrench—19mm	M14 Bolt or Nut Wrench—22 mm



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